FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIS

FMEA NUMBER:CSD- TB-11 ORGINATOR: PROJECT: GFE Orbiter JSC

PART NAME: OIK PART NUMBER: SEG39126990-301 LRU/ORU PART NUMBER: SED39126212-301 QUANTITY: 1 LRU/ORU PART NAMÉ: TASK BOARD

SYSTEM: DTO 671

LSC CONTROL NO: N/A

DRAWING/REF DESIGNATOR: SEE P/N

SUBSYSTEM: EVA EXP.

ZONE/LOCATION: PLB EFFECTIVITY/AFFECT STAGE: STS-69 & SUBS

CRITICALITY:

CRITICAL ITEM? no CRITICALITY CATEGORY___1R/3_ SUCCESS PATHS: ____5_

SUCCESS PATH REMAINING:_2

END ITEM NAME: N/A

END ITEM FUNCTIONAL: N/A END ITEM CAPABILITY: N/A

END ITEM FAILURE TOLERANCE: N/A

REDUNDANCY SCREENS:

A/1. C/O PRELAUNCH:N/A

C/O ON ORBIT: N/A

B/3. DETECTION FLIGHT CREW: N/A

4. DETECTION GROUND CREW:N/A

C/5. LOSS OF REDUNDANCY FROM SINGLE CAUSE: N/A

ON-ORBIT RESTORABILITY:: N/A

FUNCTION: The on orbit installed handrail(OIH) is a EVA translation aid. It is attached to the task board through a component known as a seat track. A latch lever on each handrail stanchion is inserted through the scat track to provide adequate structural attachment. A latch lever lock is provided on the handrail to prevent inadvenent detachment. On STS-69 the OIH is launch and cturned in a middeck locker.

FAILURE MODE CODE: N/A

FAILURE MODE: Latch lever or latch lever lock jams,

CAUSE: Contamination, galling, thermal distontion.

REMAINING PATHS: Other latch

EFFECT/ MISSION PHASE: EVA

CORRECTIVE ACTION: If unable to insert one latch open other latch, discontinue handrail operations. If unable to open a latch close 2nd latch, leave handrail attached to task board.

-FAILURE EFFECTS-

END ITEM/LRU/ORU/ASSEMBLY: Unable to install or remove handrail on task board.

SUBSYSTEM/NEXT ASSEMBLY/INTERFACE: N/A

SYSTEM/END ITEM/MISSION: Partial loss of DTO objectives

CREW/VEHICLE: None, for multiple failures. As long as one latch remains closed the handrail can support launch or landing loads. If 4 failures were to occur the handrail could become detached from its mounting location and impact the vehicle during ascent or descent.

FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIS

FMEA NUMBER: CSD- TB-11	ORGINATOR: JSC	PROJECT: GFE Orbiter
FART NAME: OUE PART NUMBER: SEG39126990-301 LSC CONTROL NO: N/A	LRU/ORU PART NUMBER:SED39126212-30 LRU/ORU PART NAME: TASK BOARD DRAWING/REF DESIGNATOR: SEE P/N EFFECTIVITY/AFFECT STAGE: STS-69 & SU	SYSTEM: DTO 571 SUBSYSTEM: EVA EXP.
ZONE/LOCATION: PLB	HAZARD INFORMATION:	
	RAZARD EG ORDANON.	
HAZARD; YES NOx		
HAZARD ORGANIZATION CODE: Y	N/A	•
HAZARO NUMBER: N/A	<u> </u>	
TIME TO EFFECT: Hours TIME TO DETECT: Seconds TIME TO CORRECT: Seconds FAILURE DETECTION/FLIGHT - '	Visual.	·
	REMARKS:	
· ·	-RATIONALE FOR ÁCCEPTABILITY-	
(A) DESIGN: N/A		•
(B) TEST: N/A	÷.	
(C) INSPECTION: N/A		
(D) FAILURE HISTORY: N/A	· · · · · · · · · · · · · · · · · · ·	
(E) OPERATIONAL USE: N/A		
(F) MAINTAINABILITY: N/A		
PREPARED BY: G.Wright	REVISION:	
DATE: 04/15/95	WAIVER NUMBER	
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